

# UNITED STATES PATENT AND TRADEMARK OFFICE



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APPLICATION NO.			FIRST NAMED INVENTOR Eiji Nishibe	ATTORNEY DOCKET NO.	CONFIRMATION NO. 9826	
10/007,384				10417-103001		
26211	7590 0-	4/22/2003				
FISH & RICHARDSON P.C.				EXAMINER		
	ELLER PLAZA K, NY 10111	, SUITE 2800	)	TRAN,	TRAN, TAN N	
				ART UNIT	PAPER NUMBER	
				2826		
			DATE MAILED: 04/22/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)	4					
en e			1					
	10/007,384	NISHIBE ET AL.						
Office Action Summary	Examiner	Art Unit						
TI MANUNO DATE CALL	TAN N TRAN	2826						
The MAILING DATE of this communication appeared for Reply	pears on the cover sh	et with the correspondence address						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.7 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, however, ily within the statutory minimum will apply and will expire SIX (i.e., cause the application to bec.	nay a reply be timely filed  of thirty (30) days will be considered timely. b) MONTHS from the mailing date of this communication.  me ABANDONED (35 U.S.C. § 133).						
1) Responsive to communication(s) filed on 22	October 2001 .							
2a) This action is <b>FINAL</b> . 2b) ☑ Th								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.								
4a) Of the above claim(s) <u>5-8</u> is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-4</u> is/are rejected.								
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requiremer	t.						
Application Papers	\r_							
9) The specification is objected to by the Examine		hy the Evaminer						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)□ Some * c)□ None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority document	2. Certified copies of the priority documents have been received in Application No							
<ul><li>3. Copies of the certified copies of the price</li><li>application from the International But</li><li>* See the attached detailed Office action for a list</li></ul>	ıreau (PCT Rule 17.2	(a)).						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
<ul> <li>a)    The translation of the foreign language prediction of the foreign language prediction.</li> <li>15)    Acknowledgment is made of a claim for domestic prediction.</li> </ul>								
Attachment(s)								
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s) _</li> </ol>	5) 🔲 Not	rview Summary (PTO-413) Paper No(s) ce of Informal Patent Application (PTO-152) er:						

## **DETAILED ACTION**

### Election/Restriction

1. Applicant's election without traverse of Group I, claims 1- '4 in Paper No. 4 is acknowledged.

### Oath/Declaration

2. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

It does not identify the mailing or post office address of each inventor. A mailing or post office address is an address at which an inventor customarily receives his or her mail and may be either a home or business address. The mailing or post office address should include the ZIP Code designation. The mailing or post office address may be provided in an application data sheet or a supplemental oath or declaration. See 37 CFR 1.63(c) and 37 CFR 1.76.

### **Information Disclosure Statement**

3. If applicant is aware of any relevant prior art, he/she requested to cite it on form PTO-1449 in accordance with the guidelines set forth in M.P.E.P. 609.

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**Specification** 

4. The title of the invention is not descriptive. A new title is required that is clearly

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indicative of the invention to which the claims are directed.

**Drawings** 

5. Figure 9 should be designated by a legend such as -- Prior Art-- because only that which is

old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings

are required in reply to the Office action to avoid abandonment of the application. The objection

to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this

or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-4 are rejected under 35 U.S.C. 102(a) as being anticipated by Akaishi et al.

(6,255,154).

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With regard to claim 1, Akaishi et al. discloses a semiconductor device comprising: a first gate insulating film 9 and a second gate insulating film 6, both formed on a semiconductor layer; a gate electrode 7 formed to be bridged over the first gate insulating film 9 and second gate insulating film 6; a body region 3 formed adjacent to the gate electrode 7; a source region 4 having an opposite conductive type to the body region 3 and formed within the body region 3; and a drain region 5 having the opposite conductive type to the body region 3 and formed at a position separated from the body region 3, wherein the first gate insulating film 9 is manufactured in such a manner that an insulating film formed on the semiconductor layer is patterned by way of a LOCOS method. (Note lines 39-40, column 1, fig. 11B of Akaishi et al.).

With regard to claim 2, Akaishi et al. discloses the first gate insulating film 2 have a tapered surface. (Note fig. 11B of Akaishi et al.).

With regard to claims 3,4 Akaishi et al. discloses the first gate insulating film 9 is not formed at a position lower than at least a surface position of the semiconductor layer. (Note fig. 11B of Akaishi et al.). It is inherent that local current crowding is not produced between at least an edge portion of the body region 3 and an edge portion of the first insulating film 9 because such structure of Akaishi et al. is formed the same that of applicant, so the structure of Akaishi et al. has the same functions as structure of applicant.

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Conclusion

7. Any inquiry concerning this communication or earlier communication from the examiner

should be directed to Tan Tran whose telephone number is (703) 305-3362. The examiner can

normally be reached on M-F 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan Flynn can be reached on (703) 308-6601. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 308-7722 for regular

communications and (703) 308-7724 for after final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

TT

April 2003

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